

# Ethical and legal challenges of artificial intelligence-driven healthcare

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## Abstract

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This chapter will map the ethical and legal challenges posed by artificial intelligence (AI) in healthcare and suggest directions for resolving them. Section 1 will briefly clarify what AI is and Section 2 will give an idea of the trends and strategies in the United States (US) and Europe, thereby tailoring the discussion to the ethical and legal debate of AI-driven healthcare. This will be followed in Section 3 by a discussion of four primary ethical challenges, namely, (1) informed consent to use, (2) safety and transparency, (3) algorithmic fairness and biases, and (4) data privacy. Section 4 will then analyze five legal challenges in the US and Europe: (1) safety and effectiveness, (2) liability, (3) data protection and privacy, (4) cybersecurity, and (5) intellectual property law. Finally, Section 5 will summarize the major conclusions and especially emphasize the importance of building an AI-driven healthcare system that is successful and promotes trust and the motto Health AIs for All of Us.